

COUNTY FOREST COMPREHENSIVE LAND USE PLAN

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CHAPTER 2000

**PLANNING, REPORTS, BUDGET**

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## **2000 NEEDS OBJECTIVE AND FORMAT**

### **OBJECTIVE**

To provide guidelines which define the optimum level of activities that should be undertaken to achieve full potential benefits from the Marinette County Forest.

### **FORMAT AND POLICY**

Needs for the Marinette County Forest shall be listed without regard to budgetary constraints or other limitations. This list shall identify the forest potential in terms of public benefits, investments or opportunities, and financial returns. Silvicultural needs of the county forest are identified in the Forest Compartment Reconnaissance printout. The DNR Public Lands Handbook describes procedures for use of this information. Other needs shall be determined by the Committee and the forest administrator, with technical assistance from the DNR and other interested agencies or individuals qualified to provide such assistance.

## **2005 DETAILED ANNUAL NEEDS FOR FIFTEEN YEARS**


Short and long term silvicultural needs are identified using the Forest Compartment Reconnaissance printout, along with other forest planning and scheduling reports created using WisFIRS. The printouts, referenced in the plan, are available in the County Forest administrator's office. Printout listings include timber harvests, tree planting, and other silvicultural activities. Other unanticipated needs will be addressed in accordance with procedures outlined in this plan. These items will be identified and plans made for implementation, as part of the annual budget work plan prepared by the administrator and Committee. Annual work plans are approved by the County Board and forwarded to the DNR as required by statute (s. 28.11(5)(b) and s.28.11(5m)(b), Wis. Stats.

## **2010 SUMMARY OF FIFTEEN-YEAR NEEDS**

A summary of both short and long term needs are addressed throughout this Plan. These needs are also outlined in the Annual Work Plan and Annual Budget. Forests are constantly changing. Therefore, managers must be prepared to adapt to these changes and address any unexpected changes that may occur. Issues such as funding availability and staffing shortfalls may impact the ability for the Department to effectively meet these needs.

## Timber Harvest:

Annual and long term timber harvest projections are based on the current data found in WisFIRS. The projections are based on the acreage that is considered suitable and are being actively managed for timber production. The table below shows the total acres and the average annual acres to be harvested per species for the 2021-2035 Plan. The information is based on the most current inventory data and is subject to change as the data is updated. The information will be updated annually with the new updated timber harvest projections. Annual harvest goals for any species in any given year may increase or decrease based on the most recent information. Factors such as rotation age, age-class distribution, past harvesting treatments, landscape considerations, current stand conditions, current market conditions, overall management objectives, and unforeseen natural disasters (e.g. insect/disease outbreaks, weather events, etc.) directly impact annual and long term timber harvest objectives.

<div>  <div>Long Term Harvest Goals</div> <div>Print Date: 12/1/2021 Report 201</div> </div>			
3800 - MARINETTE COUNTY FOREST			
Forest Type	15 Year Total (acres)	15 Year Average (acres)	Forest Type Description
A	38,937	2,598	ASPEN
BH	90	6	BOTTOMLAND HARDWOODS
BW	555	37	WHITE BIRCH
C	3,427	228	WHITE CEDAR
FB	271	18	BALSAM FIR
FS	482	32	FIR SPRUCE - *OLD CODE, RECODE
H	791	53	HEMLOCK
MC	53	4	MISCELLANEOUS CONIFEROUS
MD	32	2	MISCELLANEOUS DECIDUOUS
MR	1,811	107	RED MAPLE
NH	18,909	1,281	NORTHERN HARDWOODS
O	3,872	258	OAK
OX	2,912	194	SCRUB OAK
PJ	2,037	136	JACK PINE
PR	10,878	725	RED PINE
PW	1,808	121	WHITE PINE
SB	2,117	141	BLACK SPRUCE
SC	981	64	SWAMP CONIFER-*OLD CODE, RECODE
SH	5,112	341	SWAMP HARDWOODS
SW	184	11	WHITE SPRUCE
T	493	33	TAMARACK
Total:	95,512	6,368	

The harvest goals listed above will be achieved through various silvicultural methods such as select cuts, shelterwoods, seed tree, crop tree release, overstory removal, regeneration cuts, or thinning. The method used will be determined at the time the given stand is inspected. The determination will be made based on the factors listed earlier in this section.

Other silvicultural activities:

Other activities such as pruning, planting, chaining, and release work will be scheduled on an annual basis, as needed, and included in the Annual Work Plan.

Equipment replacement:

**Marinette County Forest Equipment Estimated Replacement Schedule**  
**11-16-2021**

<b>Year</b>	<b>Description</b>	<b>Current Condition</b>	<b>Current Miles/hours</b>	<b>Estimated Replacement Cost</b>
2022	Tandem axle dump truck – 98 with Quad Fair 2014 Ford ½-Ton Ext. Cab (Asst. Administrator)			190,000
2024	2005 John Deere 770D Grader	Good	hrs	300,000
2025	2013 Ford ¾-Ton Crew Cab 2017 ½ ton Ext. Cab Foresters/Scaler (4)			160,000
2027	2010 Cat 938h loader.			180,000
2027	(5) 2017 ½ pickup trucks			
2028	2011 John Deere 4520 Utility Tractor w/ attachments 2018 ½ – Ton pickup for Administrator	Good	1000 hrs	
2029	2005 International 12-yd Dump	Good	mi	150,000
2036	2016 Case Loader	New	0 hrs	

#### Road Construction and Maintenance:

Road construction will occur in areas where improved access is needed to carry out timber management objectives on the County Forest. Maintenance of the Marinette County Forest Road System will take place on an annual basis. Maintenance activities include, but are not limited to: grading, brushing, culvert/bridge maintenance or replacement, resurfacing, etc.

#### Land Acquisition:

Continue blocking of lands within the Marinette County Forest Boundaries where possible by land purchase or trade, as described in Chapter 400. Each land purchase or trade will be considered as each opportunity arises.

#### Property maintenance:

Surveying needs along private ownerships is an ongoing project and planned annually based on upcoming timber sale establishment. Money is placed within the budget each year to cover surveying costs that arise. Disease and pest management is an ever changing concern that can be hard to plan for without advance warning. Therefore, these issues will be handled as they arise. Money is built into the annual budget each year to help mitigate these issues when they occur.

#### Recreation (new and maintenance):

Consult the [Marinette County Comprehensive Outdoor Recreation Plan](#)

#### Wildlife management:

The Marinette County Forest is divided up into Wildlife Management Units. These units are used for scheduling annual maintenance of wildlife openings on the County Forest. These units are also used to plan for opening expansion, abandonment, and/or creation based on forest types, location of current openings and importance. Hunter Walking Trails are mowed and maintained on a regularly scheduled basis. New walking trails may be constructed based on the location and need within certain areas of the County Forest. Other wildlife projects, such as habitat work, population monitoring, etc. will be carried out as needed and shown within the Annual Work Plan and Annual Accomplishment Report for the given year in which the project occurs.

Fisheries management:

Structures, surveys, habitat work on streams and rivers on the Marinette County Forest has been carried out in the past and will continue to be carried out as opportunities present themselves. The projects may be carried out by Forestry Department staff, other Marinette County staff, DNR staff, or contractors.

Personnel: recreation & forestry

Needs for additional staff to carry out the Forestry Department operations is an ongoing evaluation. The need for LTE or Project Forester positions are most likely what will be needed in the near future to assist with the goals and objectives of the Department.

Note: The “Needs” schedule is put together for planning purposes. The best available information has been used in developing the schedule. It is not intended to be followed without modification. Forests are dynamic and managers must be adaptive to change. Funding and staffing shortfalls may also impact the ability of Marinette County Forestry Department to fulfill identified needs. Refer to Chapter 2020 – Annual Work Plan and Budget, for reference on progress towards the identified needs in this chapter.

## **2015 WORK PLAN OBJECTIVE AND POLICY**

### **OBJECTIVE**

To develop an annual work plan and budget that will satisfy the needs specified in Chapter 1000 to the greatest extent feasible, consistent with program priorities established in the Mission Statement.

### **POLICY**

The County Forest program will sustain a level of operation that considers the needs of the forest and the public in accordance with the goals identified in Chapter 100.

## **2020 ANNUAL WORK PLAN AND BUDGET**

Each year an Annual Work Plan and Budget shall be prepared by the forest administrator with assistance from the Committee and the DNR liaison forester. This plan shall be based upon the

detailed annual needs contained in Section 1100 of the Plan. Annual work plans are approved by the County Board and forwarded to the DNR as required by Wisconsin statutes s. 28.11(5)(b) and s.28.11(5m)(b). Following County Board approval, a copy is provided to official copy-holders of the County Forest Comprehensive Land Use Plan for inclusion as an amendment in this chapter. Click here for the [Annual Work Plan](#) and [Annual Budget](#)

## **2025 ACCOMPLISHMENT REPORTS OBJECTIVE AND POLICY**

### **OBJECTIVE**

To provide a quantifiable means of evaluating progress on both short and long term goals on the Marinette County Forest.

### **POLICY**

Annual accomplishments will be recorded as a historical record, to assist in future planning, and to provide documentation for both the County, and the County Forest system. This information is invaluable in addressing public, County Board, and other legislative inquiries on the operation of the Forest as well as assessing progress on goals.

## **2030 ANNUAL ACCOMPLISHMENT REPORTS**

A copy of an annual accomplishment report shall be prepared and provided to members of the County Board and to official copyholders of this Plan for inclusion into this chapter. [Click here for annual accomplishment reports.](#)

This report shall include, at a minimum, the following:

1. Timber sale accomplishments including gross and net sale receipts and harvest goals achieved.
2. Reforestation accomplishments including site preparation, planting, and seeding.
3. Timber stand improvements accomplishments.
4. Recreation development and maintenance accomplishments including recreation revenues and expenses.
5. Wildlife management accomplishments including revenues and expenses.
6. Fisheries management accomplishments including revenues and expenses.



7. Other accomplishments identified as needs or goals in this Plan and/or Annual Work Plan or as deemed important as determined by the Administrator and/or Committee.

## **2035 PAST ACCOMPLISHMENTS**

This summary of the Marinette County Forest activities provides a running history of accomplishments by activity. It will provide a quick and accessible reference for accomplishments on the County Forest. At a minimum this should go back to 1996 however, a historical list dating back to the inception of your County Forest would be beneficial.

Examples of activities to track include timber sales, reforestation, timber stand improvement, recreational developments and wildlife habitat accomplishments.

### **2035.1 FOREST PRODUCTS**

#### **2035.1.1 Timber**

##### **Marinette County Forest Timber Sales**

<b>Year</b>	<b># of Sales</b>	<b>MBF</b>	<b>Cords</b>	<b>Acres Cut</b>	<b>Total Cord Equivalents</b>	<b>Sales Value</b>
1996	53	399	45,221	3,209	46,110	\$1,213,748.54
1997	54	967	50,530	3,598	52,661	\$1,405,345.65
1998	49	318	37,867	3,071	38,593	\$1,329,689.15
1999	66	1,013	47,590	3,760	49,874	\$1,682,892.43
2000	48	619	33,828	2,407	35,197	\$1,274,823.89
2001	76	505	55,076	3,605	56,240	\$2,084,660.71
2002	76	892	63,323	4,260	65,334	\$2,427,088.77
2003	76	917	50,084	3,782	52,131	\$2,187,909.59
2004	68	866	43,095	3,405	45,039	\$1,767,301.67
2005	86	978	53,802	3,927	55,925	\$2,933,774.55
2006	92	1,375	61,479	4,533	66,400	\$2,791,123.24
2007	54	741	38,022	2,611	41,489	\$1,858,576.06
2008	79	718	53,014	3,363	56,214	\$2,472,447.76
2009	76	1,162	54,087	4,099	58,338	\$2,352,220.38
2010	71	1,596	57,825	3,914	64,095	\$2,640,080.59
2011	76	1,298	65,668	4,654	70,277	\$2,693,838.00
2012	52	591	46,068	3,308	48,379	\$1,996,032.76
2013	51	501	54,393	3,138	57,126	\$2,377,953.73
2014	50	933	59,109	3,706	63,713	\$2,897,967.76

2015	52	1,213	62,447	3,938	68,284	\$3,454,631.76
2016	25	459	40,680	1,912	43,211	\$2,301,411.17
2017	40	1,502	57,207	3,134	62,152	\$3,758,242.05
2018	25	552	26,207	1,674	28,419	\$1,472,067.94
2019	53	1,274	66,693	3,847	72,134	\$3,445,050.57
2020	68	2,434	89,781	4,789	98,434	\$5,230,218.09
2021	51	1,835	68,734	3,561	75,252	\$3,190,162.58
<b>Total</b>	1567	25,658	1,381,830	91,205	1,471,021	\$63,239,259.39
<b>Average</b>	60.27	987	53,147	3,508	56,578	\$2,432,279.21

#### 2035.1.2 Non-timber forest products

Marinette County Forest non-timber products permits granted from 2006-2020.

- Bough permits – Seven (7)
- Ginseng permits – Two (2)
- Ironwood seedlings/saplings permits – Fifteen (15)
- Birch tops permits – Three (3)
- Jack pine tops permits – Twelve (12)

- Salvage downed trees permits – Three (3) 2035.2 REFORESTATION

**MARINETTE COUNTY FOREST TREE PLANTING HISTORY**  
**1933-2021**

Year	Seedlings	Year	Seedlings	Year	Seedlings
1933	550,000	1970	95,687	2007	158,875
1934	937,423	1971	40,920	2008	166,500
1935	620,528	1972	65,734	2009	143,450
1936	1,562,691	1973	55,000	2010	154,700
1937	871,599	1974	80,000	2011	134,000
1938	1,152,806	1975	91,000	2012	207,400
1939	1,707,390	1976	54,000	2013	139,100
1940	4,948,961	1977	20,000	2014	105,000
1941	1,964,898	1978	60,010	2015	0
1942	1,959,066	1979	278,400	2016	140,000
1943	No Record	1980	317,838	2017	146,500
1944	No Record	1981	374,970	2018	67,300
1945	No Record	1982	149,347	2019	213,000
1946	399,200	1983	190,210	2020	73,800
1947	380,300	1984	212,549	2021	73,800
1948	414,000	1985	270,191		
1949	470,400	1986	216,062		
1950	827,000	1987	215,740		
1951	1,015,100	1988	266,175		
1952	904,000	1989	383,488		
1953	1,002,900	1990	370,000		
1954	368,900	1991	203,095		
1955	376,200	1992	207,918		
1956	362,100	1993	305,430		
1957	351,155	1994	362,900		
1958	358,300	1995	338,711		
1959	236,930	1996	266,425		
1960	372,890	1997	209,110		
1961	334,735	1998	159,900		
1962	294,231	1999	50,000		
1963	253,174	2000	146,270		
1964	302,670	2001	103,450		
1965	216,237	2002	126,300		
1966	181,126	2003	0		
1967	199,779	2004	125,970		
1968	121,048	2005	178,750		
1969	73,980	2006	165,000	<b>Total</b>	<b>34,772,592</b>

### 2035.3 TIMBER STAND IMPROVEMENT

\*Beginning in 2012, aspen release, when needed, was written into the timber sale contracts and

Year	Aspen Acres Released (Mechanical)*	Red Pine Acres Released by Herbicide
2006	0	0
2007	12	139
2008	235	127
2009	288	176
2010	124	136
2011	443	120
2012	0	146
2013	0	108
2014	0	0
2015	0	142
2016	0	186
2017	0	0
2018	0	234
2019	0	91
2020	0	0
2021	0	0

the responsibility of the timber sale contractor.

#### 2035.4 RECREATIONAL DEVELOPMENTS

Year	Campsites	ATV/UTV (miles)	Snowmobile (miles)	Hiking (miles)	Skiing (miles)	Horseback Trails (miles)	Boat Landings	Swimming Beaches
2006	142	163	236.6	13.95	5.6	0	12	4
2007	142	206.2	236.6	13.92	5.6	0	12	4
2008	142	206.2	236.6	13.92	5.6	0	12	4
2009	142	206.2	236.6	17.74	5.6	0	12	4
2010	142	206.2	236.6	24.56	5.6	5.2	12	4
2011	142	206.2	236.6	26.42	5.6	5.2	12	4
2012	157	206.2	236.6	26.42	5.6	15.5	12	4
2013	157	206.2	236.6	26.42	5.6	15.5	12	4
2014	157	206.2	236.6	26.42	5.6	15.5	12	4
2015	157	206.2	236.6	26.42	5.6	27.6	12	4
2016	157	206.2	236.6	26.42	5.6	27.6	12	4
2017	157	206.2	236.6	26.42	5.6	28.7	12	4
2018	158	206.2	236.6	26.42	5.6	33.3	12	4
2019	158	206.2	236.6	26.42	5.6	37.2	12	4
2020	158	206.2	236.6	26.42	5.6	37.2	12	4
2021	158	206.2	236.6	26.42	5.6	37.2	12	4

## 2035.5 WILDLIFE PROJECTS

The projects listed below are primarily carried out on an annual basis. A list of all wildlife projects completed each year can be found in the Annual Accomplishments Reports.

Year	Trails mowed	Barrens burned	Trails Closed *	Openings constructed	Openings maintained
2006	18.0 miles	115 acres	4.5 mi. (12 closures)	None	Information not avail.
2007	18.0 miles	None	None	None	184 acres
2008	18.0 miles	None	None	None	81.1 acres maintained and 70 acres enlarged
2009	None	None	None	None	98.1 acres maintained
2010	None	None	None	None	141 acres maintained
2011	6.5 miles	None	None	None	261 acres maintained
2012	2.75 miles	None	None	None	106.9 acres maintained
2013	13.25 miles	None	None	None	142.8 acres maintained
2014	13.25 miles	None	None	None	150.4 acres maintained
2015	10.5 miles	None	None	None	130 acres maintained
2016	10.5 miles	None	None	None	66 openings maintained
2017	None	None	None	None	48 openings maintained
2018	None	66 acres	None	None	59 openings maintained
2019	None	None	None	None	61 openings maintained
2020	None	None	None	None	53 openings maintained
2021	10.5 miles	None	None	1	65 openings maintained

## 2040 MONITORING

### 2040.1 FOREST TYPES

#### Marinette County Forest Composition

Forest Type	Original Acres	Original %	1995 Acres	1995%	2005 Acres	2005%	2021 Acres	2021%	Proposed Acres	Proposed %
Aspen	96097	41.3	101905	44.8	99502	43.5	97404	42.6	96194	43.4
Offsite Aspen	72	0	72	0.1	73	0.1	0	0.0	0	0.0
Bottld. Hdwd	217	0.1	235	0.1	222	0.1	269	0.1	269	0.1
W. Birch	3992	1.8	2615	1.2	1577	0.7	827	0.4	775	0.3
Balsam Fir	0	0	0	0	0	0	471	0.2	4716	2.1
Cedar	5899	2.7	6271	2.8	6674	2.9	9813	4.3	7528	3.4
White Spruce	0	0	0	0	0	0	310	0.1	343	0.2
Fir-Spruce	5287	2.4	3683	1.6	3102	1.4	609	0.3	588	0.3
Misc. Deciduous	0	0	0	0	0	0	59	0.0	59	0.0
Misc. Coniferous	0	0	0	0	0	0	163	0.1	117	0.1
Hem-Hdwd.	1028	0.5	1148	0.5	1061	0.5	1464	0.6	718	0.3
Red Maple	0	0	11	0	918	0.4	5389	2.4	5248	2.4
N. Hdwd.	22277	10	23374	10.3	23430	10.2	21658	9.5	22548	10.2
Oak	11250	5.1	10982	4.8	11753	5.1	9154	4.0	8923	4.0
Scrub Oak	4087	1.8	4551	2	5454	2.4	11428	5.0	10835	4.9
Jack pine	13300	6	10980	4.8	9509	4.2	6985	3.1	7263	3.3
Red pine	11180	5	12057	5.3	13370	5.8	13060	5.7	13834	6.2
White pine	0	0	1619	0.7	1961	0.9	2963	1.3	3757	1.7
B. Spruce	3256	1.5	3225	1.4	3238	1.4	4048	1.8	3533	1.6
Sw.. Conifer	6015	2.7	5576	2.5	5701	2.5	1305	0.6	738	0.3
Sw. Hdwd.	12419	5.6	12558	5.6	12735	5.6	13186	5.8	12867	5.8
NonCom Sw	7	0	7	0	6	0	0	0.0	0	0.0
NonCom SB	81	0.1	104	0.1	95	0.1	0	0.0	0	0.0
Tamarack	290	0.1	288	0.1	435	0.2	872	0.4	756	0.3
Total Forested	196754	88.70%	201261	88.10%	200816	88.00%	201437	88.0	201609	90.9

True Grasses	1230	0.6	1293	0.6	849	0.4	505	0.2	488	0.2
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Cool Season Grass	0	0	0	0	0	0	31	0.0	0	0.0
Bracken Grasslands	0	0	0	0	0	0	217	0.1	4	0.0
Upl. Grass	252	0.1	261	0.1	217	0.1	231	0.1	231	0.1
Herb. Veg.	527	0.2	652	0.3	494	0.2	320	0.1	320	0.1
Low shrub	501	0.2	486	0.2	464	0.2	186	0.1	186	0.1
Indust. Area	0	0	73	0.1	76	0.1	39	0.0	0	0.0
Parking Area	0	0	0	0	8	0	7	0.0	1	0.0
Campground	0	0	31	0	17	0	79	0.0	30	0.0
Picnic Area	0	0	0	0	10	0	8	0.0	8	0.0
Marsh	6669	3	1312	0	1541	0.7	1279	0.6	1279	0.6
Emerg. Veg.	0	0	394	0.2	570	0.2	373	0.2	373	0.2
Muskeg Bog	0	0	89	0.1	95	0.1	407	0.2	108	0.0
Lowland Grass	0	0	360	0.2	470	0.2	440	0.2	440	0.2
Lowland Herb. Veg.	0	0	17	0	25	0	17	0.0	17	0.0
Water	0	0	162	0.1	92	0.1	82	0.0	82	0.0
Low. Brush	7621	3.4	7882	3.5	9823	4.3	8292	3.6	8292	3.7
Alder	4529	2.1	4496	2	4604	2	3240	1.4	3240	1.5
Wetland Shrub Alder	0	0	0	0	0	0	1878	0.8	159	0.1
Willow	0	0	19	0	5	0	5	0.0	5	0.0
Minor Lake	0	0	1319	0.6	721	0.3	767	0.3	425	0.2
Minor stream	0	0	97	0.1	315	0.1	377	0.2	176	0.1
R-O-W	0	0	1206	0.5	2731	1.2	2756	1.2	2008	0.9
Upland brush	3831	1.7	3748	1.7	3093	1.4	986	0.4	986	0.4
Emerg. Wetland	0	0	0	0	0	0	430	0.2	0	0.0
Farmland	0	0	0	0	0	0	1	0.0	0	0.0
Fen	0	0	0	0	0	0	8	0.0	0	0.0
Oak/Pine Barrens	0	0	0	0	0	0	271	0.1	0	0.0
Rem. Prairie - Dry	0	0	0	0	0	0	31	0.0	0	0.0
Sedge Meadow	0	0	0	0	0	0	339	0.1	0	0.0
Shallow Lake/Deep Marsh	0	0	0	0	0	0	80	0.0	0	0.0
Upland Shrub	0	0	0	0	0	0	321	0.1	0	0.0
Wetland Shrub	0	0	0	0	0	0	1046	0.5	6	0.0
Rock outcrop	0	0	2228	1	1948	0.9	2345	1.0	1415	0.6



Total non-forest	25160	11.30%		26125	11.90%		28168	12.00%		27394	12.0		20279.0	9.1
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<b>Total Property</b>	221,914	100%		227386	100%		228984	100%		228831	100%		221888.0	100%
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## 2040.2 HARVESTING

### ***MARINETTE COUNTY FOREST***

#### ***ASPEN (Acres)***

<b><i>YEAR</i></b>	<b><i>NEED</i></b>	<b><i>Established</i></b>	<b><i>Sold</i></b>	<b><i>Closed</i></b>
<b><i>2006</i></b>	-	<u>534</u>	<u>667</u>	<u>450</u>
<b><i>2007</i></b>	-	<u>738</u>	<u>697</u>	<u>348</u>
<b><i>2008</i></b>	<u>2213</u>	<u>1044</u>	<u>914</u>	<u>863</u>
<b><i>2009</i></b>	<u>2177</u>	<u>708</u>	<u>1091</u>	<u>576</u>
<b><i>2010</i></b>	<u>2216</u>	<u>1250</u>	<u>1094</u>	<u>825</u>
<b><i>2011</i></b>	<u>2205</u>	<u>1106</u>	<u>939</u>	<u>1037</u>
<b><i>2012</i></b>	<u>2192</u>	<u>1073</u>	<u>1387</u>	<u>964</u>
<b><i>2013</i></b>	<u>2245</u>	<u>476</u>	<u>1004</u>	<u>1206</u>
<b><i>2014</i></b>	<u>2198</u>	<u>1523</u>	<u>1419</u>	<u>1227</u>
<b><i>2015</i></b>	<u>2186</u>	<u>1560</u>	<u>1647</u>	<u>1073</u>
<b><i>2016</i></b>	<u>2199</u>	<u>1446</u>	<u>1464</u>	<u>787</u>
<b><i>2017</i></b>	<u>2211</u>	<u>1010</u>	<u>981</u>	<u>1363</u>
<b><i>2018</i></b>	<u>2362</u>	<u>1992</u>	<u>1379</u>	<u>488</u>
<b><i>2019</i></b>	<u>2464</u>	<u>1085</u>	<u>1555</u>	<u>1874</u>
<b><i>2020</i></b>	<u>2526</u>	<u>1778</u>	<u>798</u>	<u>1775</u>
<b><i>2021</i></b>	<u>2596</u>	<u>1409</u>	<u>2235</u>	<u>1053</u>
<b><i>Totals</i></b>	<u>31990</u>	<u>18729</u>	<u>19271</u>	<u>15909</u>
<b><i>Annual Average</i></b>	<u>2285</u>	<u>1171</u>	<u>1204</u>	<u>994</u>

***Northern Hardwood (Acres)***

<b><i>YEAR</i></b>	<b><i>NEED</i></b>	<b><i>Established</i></b>	<b><i>Sold</i></b>	<b><i>Closed</i></b>
<b><i>2006</i></b>	-	810	951	1584
<b><i>2007</i></b>	-	1187	958	1015
<b><i>2008</i></b>	1340	1046	883	595
<b><i>2009</i></b>	1324	481	1252	1345
<b><i>2010</i></b>	1337	1360	933	855
<b><i>2011</i></b>	1326	1026	918	1217
<b><i>2012</i></b>	1334	249	721	827
<b><i>2013</i></b>	1340	652	646	274
<b><i>2014</i></b>	1256	442	505	1072
<b><i>2015</i></b>	1285	367	347	925
<b><i>2016</i></b>	1251	196	199	212
<b><i>2017</i></b>	1248	145	108	64
<b><i>2018</i></b>	1238	426	110	325
<b><i>2019</i></b>	1238	389	477	382
<b><i>2020</i></b>	1228	487	150	503
<b><i>2021</i></b>	1261	1031	1221	285
<b><i>Totals</i></b>	1806	10294	10379	11480
<b><i>Annual Average</i></b>	1286	643	649	718

***Red Pine (Acres)***

<b><i>YEAR</i></b>	<b><i>NEED</i></b>	<b><i>Established</i></b>	<b><i>Sold</i></b>	<b><i>Closed</i></b>
<b><i>2006</i></b>	-	957	857	983
<b><i>2007</i></b>	-	952	818	345
<b><i>2008</i></b>	743	908	1195	817

<u>2009</u>	<u>769</u>	<u>653</u>	<u>936</u>	<u>1287</u>
<u>2010</u>	<u>815</u>	<u>1071</u>	<u>919</u>	<u>894</u>
<u>2011</u>	<u>849</u>	<u>964</u>	<u>989</u>	<u>1239</u>
<u>2012</u>	<u>853</u>	<u>462</u>	<u>595</u>	<u>892</u>
<u>2013</u>	<u>904</u>	<u>486</u>	<u>486</u>	<u>654</u>
<u>2014</u>	<u>902</u>	<u>579</u>	<u>594</u>	<u>638</u>
<u>2015</u>	<u>877</u>	<u>232</u>	<u>232</u>	<u>310</u>
<u>2016</u>	<u>887</u>	<u>244</u>	<u>244</u>	<u>208</u>
<u>2017</u>	<u>879</u>	<u>580</u>	<u>580</u>	<u>482</u>
<u>2018</u>	<u>825</u>	<u>967</u>	<u>523</u>	<u>215</u>
<u>2019</u>	<u>825</u>	<u>707</u>	<u>1046</u>	<u>558</u>
<u>2020</u>	<u>739</u>	<u>876</u>	<u>643</u>	<u>882</u>
<u>2021</u>	<u>725</u>	<u>1074</u>	<u>1308</u>	<u>694</u>
<i>Totals</i>	<u>11592</u>	<u>11694</u>	<u>11965</u>	<u>11098</u>
<i>Annual Average</i>	<u>828</u>	<u>731</u>	<u>748</u>	<u>694</u>

***Jack Pine (Acres)***

<b><i>YEAR</i></b>	<b><i>NEED</i></b>	<b><i>Established</i></b>	<b><i>Sold</i></b>	<b><i>Closed</i></b>
<b><i>2006</i></b>	-	339	273	530
<b><i>2007</i></b>	-	112	159	181
<b><i>2008</i></b>	214	164	206	480
<b><i>2009</i></b>	194	135	155	182
<b><i>2010</i></b>	191	147	147	152
<b><i>2011</i></b>	186	254	254	224
<b><i>2012</i></b>	173	113	113	76
<b><i>2013</i></b>	167	192	174	75
<b><i>2014</i></b>	193	127	145	165
<b><i>2015</i></b>	155	39	39	319
<b><i>2016</i></b>	163	93	93	39
<b><i>2017</i></b>	152	70	70	4
<b><i>2018</i></b>	161	161	100	4
<b><i>2019</i></b>	127	266	280	198
<b><i>2020</i></b>	131	32	41	131
<b><i>2021</i></b>	225	109	141	41
<b><i>Totals</i></b>	2432	2353	2390	2801
<b><i>Annual Average</i></b>	174	147	149	175

***Pin Oak (Acres)***

<b><i>YEAR</i></b>	<b><i>NEED</i></b>	<b><i>Established</i></b>	<b><i>Sold</i></b>	<b><i>Closed</i></b>
<b><i>2006</i></b>	-	367	281	318
<b><i>2007</i></b>	-	624	380	190
<b><i>2008</i></b>	205	502	698	510
<b><i>2009</i></b>	250	234	497	287
<b><i>2010</i></b>	246	349	288	571
<b><i>2011</i></b>	251	502	464	484
<b><i>2012</i></b>	262	625	724	302
<b><i>2013</i></b>	252	235	235	615
<b><i>2014</i></b>	244	420	420	268
<b><i>2015</i></b>	235	469	469	383
<b><i>2016</i></b>	206	379	379	352
<b><i>2017</i></b>	213	338	338	258
<b><i>2018</i></b>	224	506	300	271
<b><i>2019</i></b>	276	357	553	317
<b><i>2020</i></b>	158	259	237	566
<b><i>2021</i></b>	194	212	212	679
<b><i>Totals</i></b>	3216	6378	6475	6371
<b><i>Annual Average</i></b>	230	399	405	398

***Red Oak (Acres)***

<b><i>YEAR</i></b>	<b><i>NEED</i></b>	<b><i>Established</i></b>	<b><i>Sold</i></b>	<b><i>Closed</i></b>
<b><i>2006</i></b>	-	24	6	489
<b><i>2007</i></b>	-	439	265	121
<b><i>2008</i></b>	289	80	698	510
<b><i>2009</i></b>	327	0	36	332
<b><i>2010</i></b>	371	290	190	182
<b><i>2011</i></b>	388	92	192	281
<b><i>2012</i></b>	390	139	119	143
<b><i>2013</i></b>	375	343	330	54
<b><i>2014</i></b>	374	470	503	94
<b><i>2015</i></b>	386	500	449	323
<b><i>2016</i></b>	397	804	804	167
<b><i>2017</i></b>	332	450	426	386
<b><i>2018</i></b>	316	1010	929	413
<b><i>2019</i></b>	276	367	372	520
<b><i>2020</i></b>	253	170	234	1217
<b><i>2021</i></b>	258	331	308	374
<b><i>Totals</i></b>	4732	5509	5861	5606
<b><i>Annual Average</i></b>	338	344	366	350

## **MARINETTE COUNTY FOREST**

### **ALL SALES (acres)**

<b>Year</b>	<b>Need</b>	<b>Established</b>	<b>Recon in lieu of Sale</b>	<b>Sold</b>	<b>Closed</b>
2006	-	3249	-	3284	4533
2007	-	4549	-	3631	2611
2008	6582	4026	872	4567	3363
2009	6660	2490	1430	4335	4099
2010	6746	4636	258	3708	3914
2011	6822	4309	420	4067	4654
2012	6836	2954	1011	3989	3308
2013	6885	3403	2149	3367	3138
2014	6716	3847	1284	3872	3706
2015	6626	3838	1047	3782	3938
2016	6495	3395	2233	3488	1912
2017	6342	2865	1023	2715	3134
2018	6396	5516	270	3738	1674
2019	6390	3294	190	4469	3847
2020	6273	3915	274	2188	4789
2021	6368	4888	1410	6245	3716
<b>Totals</b>	92137	61174	13871	61445	56336
<b>Annual Average</b>	<b>6581</b>	<b>3823</b>	<b>991</b>	<b>3840</b>	<b>3521</b>

### 2040.3 FLORA / FAUNA

The last decade has seen certain changes in the composition of stands on the county forest, mainly in the under-story. Examples include:

- Loss of aspen regeneration due to over-browsing in areas of high deer concentration.
- Cedar and hemlock regeneration becoming established due to mild winters, resulting in less concentration of deer in certain areas.
- Ironwood regeneration in hardwood and oak stands. These stands are being considered for herbicide and/or prescribed burning treatments to prepare for desired regeneration of maple or oak.
- Red pine regeneration in red pine plantation following the thin of stands prior to good seed crop years.
- Red maple regeneration in red pine plantations on heavier soils, mainly in the north.
- Conifer and hardwood regeneration in mature jack pine stands declining in health.
- Active wolf territories have gone from none to three or four known territories utilizing county forest lands
- Bear bait survey indicate populations have continued to increased
- Deer populations continue to fluctuate, generally speaking the past four years have seen deer populations at or above established population goals

All of the above situations and others present different challenges to the long-range management of the various stands. Handling each on a case-by-case basis rather than a one-prescription-fits-all policy will be the most effective way to insure continued productivity.

### 2040.4 RECREATIONAL USE

During the last planning period camping opportunities in the Marinette County Forest have remained somewhat stable with a slight increase. Recreational trails however have increased. Snowmobile trails total 236 miles while ATV/UTV trails total 206 miles. Hiking trails have had an increased interest over the period. Marinette County has added



9.5 miles of trails. Currently, Marinette County is working with a contractor to engineer a mountain bike trail in northern Marinette County. Marinette County has also created 37.2 miles of designated equestrian trails since the previous plan period.

#### 2040.5 HIGH CONSERVATION VALUE FOREST AREAS

Since Marinette County is not FSC certified, it does not have any High Conservation Value Forests (FSC terminology), but it does have Exceptional Resources and Unique Areas which are described in Chapter 800 of this plan.

#### 2040.6 ROADS & ACCESS

The majority of the goals and objectives of the last plan were met or exceeded during the ten-year period. The primary road system was maintained and improved, ensuring the system is up to State Department of Transportation specifications annually, insuring continued funding. The new County Forest Roads proposed in the last plan were constructed and added to the County Forest Road system along with a town road which Marinette County took jurisdiction over in 2017. Plans for new County Forest Roads will continue to be added as needed.

#### 2040.7 OTHER

*Include any other items that you may be currently monitoring that may be of value to track (e.g. dam inspections, etc.)*